

This Week In PHOTONICS

PHOTONICS MEDIA



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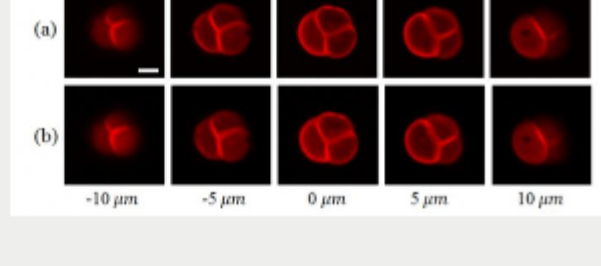


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Top Stories

Compressive Sensing Speeds 2-Photon Microscopy While Maintaining Image Quality

To enhance the imaging speed of two-photon microscopy without compromising resolution, researchers from The Chinese University of Hong Kong combined compressive imaging techniques with a multifocus laser illumination method that uses a digital micromirror device (DMD).

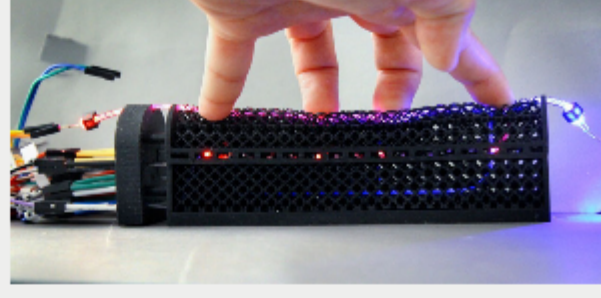


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Optical Lace Could Give Robots Higher Tactile Capabilities

Optical lace — lacings of stretchable optical fibers distributed throughout 3D-printed elastomer frameworks — could be used to create a linked sensory network similar to a biological nervous system that would enable soft robots to sense how they interact with their environment and adjust their motions accordingly.

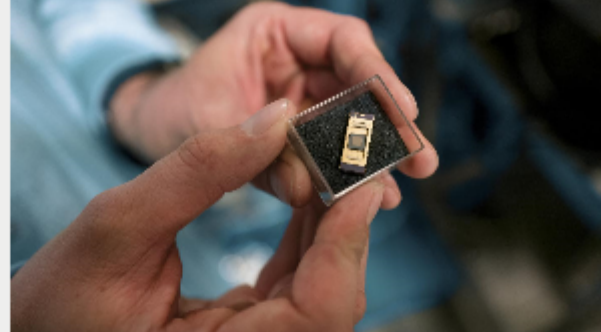


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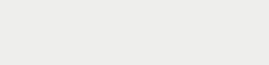


Researchers Remove Obstruction to High-Quality Single Photon Emission in Quantum Dots

Quantum dots are an efficient interface between matter and light and could potentially form the basis of quantum communications. However, their signal can be obstructed by structures that form by default during their manufacture. Researchers at the University of Basel, Ruhr-Universität Bochum, and Forschungszentrum Jülich have found a way to eliminate these interfering structures.



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Featured Products



IDS: More Than 100 New U3V Cameras

IDS Imaging Development Systems GmbH

IDS Imaging Development Systems is expanding its USB3 Vision camera range by more than 100 models in the coming weeks. The company integrates the entire range of Sony sensors which are already available with GigE Vision interface. The USB3 Vision cameras will be available both as CP and SE family variants. For the latter, customers can choose between housing or board level versions with different lens holder options,...

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Vutara Super-Resolution Microscopy

Bruker Nano Surfaces

Based on single-molecule localization techniques (PALM, STORM, etc.), Vutara 352 enables quantitative imaging at the nanoscale. With SRX software and its Quantitative Localization Microscopy (QLM) analysis suite, Vutara 352 can provide visual and quantitative information from biological samples. Frame rates up to 3000 fps allow data to be collected from live samples and perform time based measurements.

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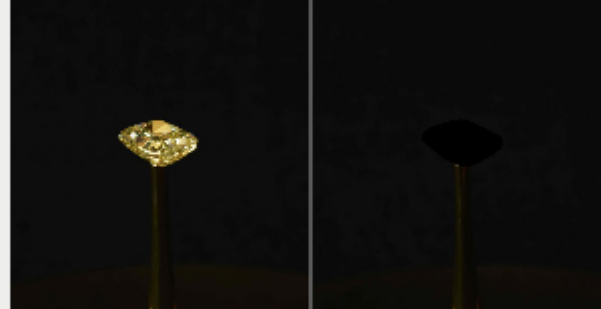
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More News

Ultrablack Coating Is 10x Darker Than Other Very Black Materials

MIT engineers have developed a material they say is 10x blacker than any ultrablack material that has previously been reported. The material is made from vertically aligned carbon nanotubes (CNTs) that the team grew on a surface of sodium chloride-etched aluminum foil. The foil captures at least 99.995% of any incoming light.



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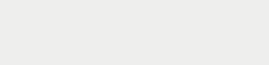


Using Renewable Energy to Power LEDs at Night

An inexpensive thermoelectric device demonstrated the ability to power an LED at night by harnessing the cold of space to generate electricity. Such a device could be used for power generation in remote locations and to produce renewable electricity at night, when lighting demand is at its peak.



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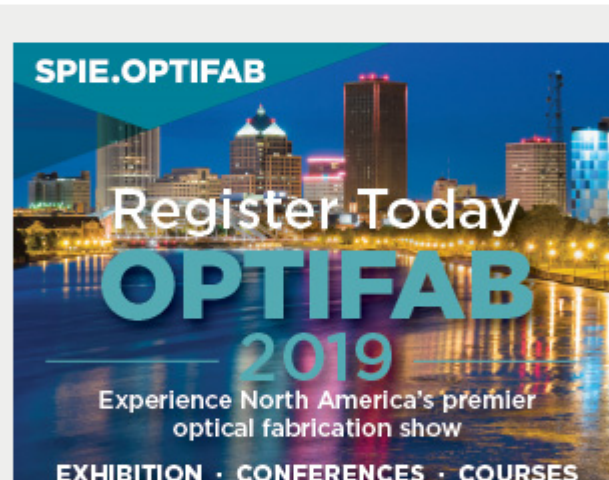
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Industry Events

OSA Laser Congress 2019

September 29 - October 3, 2019 - Austria Center Vienna - Vienna Austria

The 2019 OSA Laser Congress will offer a comprehensive view of the latest advances in solid state lasers and a comprehensive view of industrial products and markets. Conference programs and presentations will address how to improve the operation and application of solid state lasers and discuss the use of lasers in diverse fields such as environmental sensing and medical diagnostics. Materials processing and applications for high-power lasers will also be covered. With numerous exhibitors and sponsors at the event, attendees in search of a solution will have a number of sources to help them identify the best option for their needs. Image courtesy of OSA, The Optical Society.

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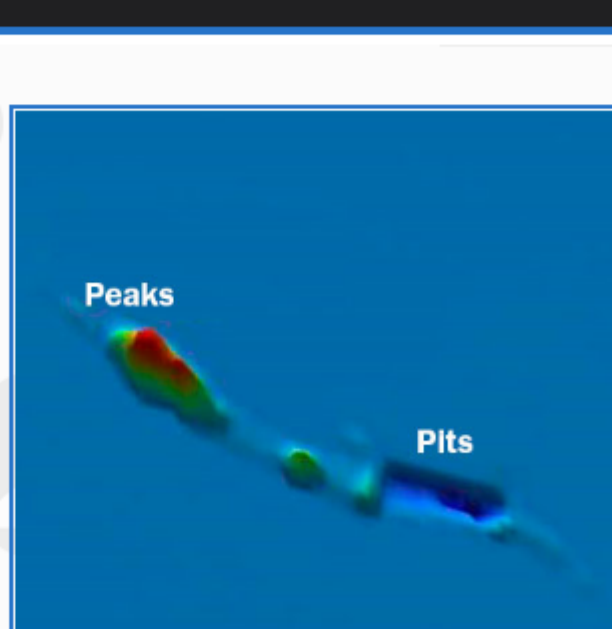
Webinars

Solving Challenges in Defect Inspection of Advanced Optics

Mon, Sep 23, 2019 1:00 PM - 2:00 PM EDT

This webinar, presented by Bruker Corp., will discuss how a white-light interferometry (WLI) optical profiler performs precise, fully automated defect inspection of advanced optical components such as lenses, mirrors, prisms, and windows. The noncontact WLI technique combines subnanometer vertical resolution over square-millimeter large areas, enabling 100% inspection of high-quality optics through direct measurement of topography. Presenter Samuel Lesko will explain how customized analysis can easily spot the most minute defects, even in cases of complex surface geometry, and how customized analysis can automatically output critical information of detected defects (size, depth/height, orientation, location) without operator intervention or an etching step.

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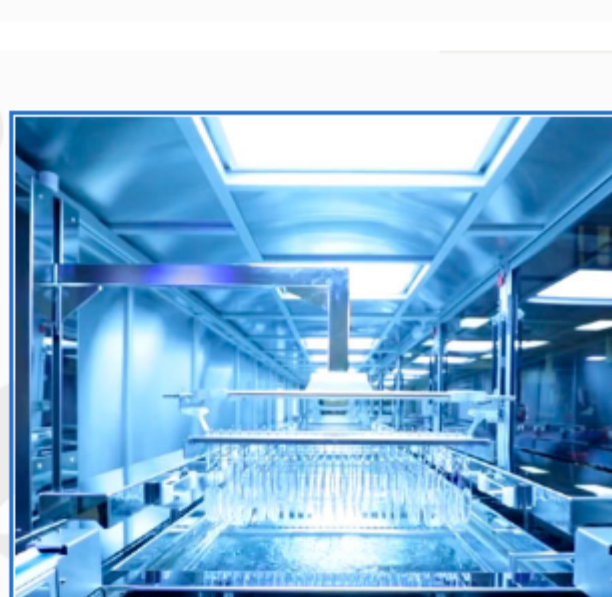


Everything You Ever Wanted to Know About Optical Coatings, but Were Afraid to Ask

Thu, Sep 26, 2019 1:00 PM - 2:00 PM EDT

In this interactive webinar, the technical experts at North American Coating Laboratories, led by NAACL's director of business development, Dan Fiore, will host a forum during which they will address your coating concerns and questions with detailed technical responses. The NAACL panel will be prepared to answer your toughest coating questions and will cover common coating concerns as well as areas that are often overlooked. When you complete the registration process for this webinar, please let us know what challenges you have faced or are facing currently with optical coatings. The panel will present its answers in detail during the webinar and give the audience ample time for additional Q&A.

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